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ABSTRACT

Provided in this document is a bibliography of selected materials addressing the interface between forestry and the social sciences. Materials are primarily from United States and foreign professional journals and publication lists of United States Forest Service extension stations. A subject-matter classification scheme, in outline format, is provided at the beginning of the document. Entries (numbered 2967-3354) are listed alphabetically by author according to the topics indicated in this scheme. Major topic areas include social science applied to: (1) forestry at large; (2) forestry's productive agents; (3) forest production, (4) manufacturing; and (5) marketing, trade, and demand for forest output. Each entry includes citation number, author(s), title, source, year, number of pages, and a code related to specific sections in the subject-matter classification scheme. In addition, if the publication is not in English, the language used is indicated. Brief annotations are provided for most entries. An author index with reference to citations in this issue is included. Also included in an appendix is a list of theses/dissertations in progress in the United States and Canada. These citations include student's name, topic, institution where the degree is being completed, the degree, and anticipated date of completion. (JN)

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SOCIAL SCIENCES IN FORESTRY

Subject-Matter Classification Scheme

Note: This outline is regarded as working for the most part from the general to the specific. Material covering two or more sections of this outline is classified in the most general of these sections. Material which is classifiable in any of two or more sections is classified in the most specific of these sections. *Asterisks mark those subjects which are not represented in this issue.

I. SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

A. General principles, scope, content, method

B. History, status, prospects of forestry in an area, society in an area (This section includes material on forest resources alone, as opposed to that on consumer or intermediate resources alone, for which see appropriate sections.)

1. General
2. United States, Canada
3. Other north-temperate nations
4. South-temperate nations
5. Nations in lower latitudes

C. Law, politics, policy, plan, program, and their administration

D. Other influences

1. Taxation

a. General
b. Property, general and special; severance; lieu payment
c. Income, inheritance, other

2. Valuation (See also IIIA5i)
*3. Insurance
4. Social interest, value system, custom, folklore, culture
*5. Characteristics of the individual
6. Public relations, other

E. Research (For research on specifc topics, see those topics.)

F. Professional and subprofessional affairs, education, employment of foresters

G. Social and economic development (See also IB)

H. Environmental concern

II. APPLIED TO FORESTRY'S PRODUCTIVE AGENTS
(See also the individual operation or type of output in III, IV, V)

A. Labor (Some material on labor will be found in IF, IV)

1. General, employment, demand
*2. Supply, union
3. Wage, cost hours, productivity, technology, training, return, benefit
4. Working condition, turnover, absenteeism, safety, insurance
5. Characteristics of the worker

B. Owner, ownership, manager, entrepreneuer, holding (See also IC, IIC3)

1. General
2. Public

a. General
b. Federal, central
c. Regional, local

3. Private

a. General
b. Industrial
c. Nonindustrial

C. Land

*1. Context of supply, requirement, etc.
2. Description, use trend and status, interpreted description
3. Management, use prospect and plan, planning, marketing, tenure
*4. Research method

D. Capital

1. General, investment, interest, finance

(For investment in forest production, see IIIE; for that in manufacturing, see IVA4)

2. Credit

III. APPLIED TO FOREST PRODUCTION (See also IIB, C)

A. Production including nontimber commodities and services

1. General, supply, multipurpose management
*2. Christmas trees, greens
*3. Range and livestock
4. Naval stores, maple product
5. Recreation

a. General
*b. Research
c. Decision making, planning, policy, law
d. Demand, consumer, market
e. Parks and wilderness areas
f. Interpretation
g. Aesthetic values
h. Consumer activities such as driving, walking, camping, etc.
i. Valuation

6. Water, soil, watershed management, shelterbelts
*7. Wildlife, hunting, fishing
8. Urban forestry

B. Production chiefly of timber

1. General, supply
*2. Soil, site, site improvement
3. Tree regeneration and improvement; plantation
4. Intermediate cutting, pruning, stand improvement
*5. Harvest cutting, rotation, cutting cycle, stocking, regulation, allowable cut
(For harvesting treated as engineering, see IVB)

*C. Roads, other forest-management transportation
(For transportation in harvesting, see IVB4; in manufacturing and marketing, VD)

D. Damage and protection

1. From fire
*2. Prescribed burning
*3. From insects
*4. From other agencies

(For water damage and soil erosion, see IIIA6)

E. Decision making, planning, investment, accounting, inventorying
(For investment in general, see IID1)

IV. APPLIED TO MANUFACTURING
(For material on forestry in general, including forest land resources, see IB)

A. The industry in general

1. Status and trend

*a. General
b. United States, Canada
c. Other north-temperate nations
*d. South-temperate nations
e. Nations in lower latitudes

2. Directory
(Includes those covering specific branches of industry.)
*3. History
4. Decision making, planning, investment, accounting, inventorying
(For a specific branch of industry, see that branch, "Operation of firm"; for investment in general, see IID1)

B. Timber-harvesting industry
(Includes roundwood in general; for specific types, see IVC, "raw material." For harvesting as silviculture, see IIIB4, 5)

*1. Status and trend
*2. Operation of firm
*3. Utilization of the stand or tree
(For utilization of a specific product, see the branch of industry in question.)

*a. General
*b. Logging residue and its disposal

*4. Transportation (Skidding, yarding, loading, hauling to mill. For transportation in forest management, see IIIC; in manufacturing and marketing, see VD)

C. Wood-using industry

1. Lumber, allied product, pallet

a. Industry status and trend
*b. Production, consumption, stocks, other statistics
(For sawtimber, see IB, IVB; for sawlogs, see IVC1d)
*c. Operation of firm
d. Raw materal

2. Pulp, paper, board

a. Industry status and trend
*b. Operation of firm
c. Raw material
*d. By-products

3. Veneer, plywood, panel

a. Industry status and trend
*b. Operation of firm
*c. Raw material

*4. Bark, chips other residue
(See also IVB3 and the industry branch in question, "Operation of firm.")
5. Furniture
*6. Particleboard, hardboard, fibreboard, flakeboard
7. Construction
8. Charcoal, fuelwood, other combustibles; energy
*9. Other wood-using industry (including pole, piling, post, mine timber, railway tie)

D. Other forest industry

*1. Decorative product
*2. Naval stores
*3. Maple product
*4. Other

V. APPLIED TO MARKETING, TRADE, DEMAND FOR FOREST OUTPUT
(For marketing and demand for productive agents, see II)

A. Consumption

1. General; history of consumption; consumption-production relationships
2. Consumption or production prospect, goal, requirement, prediction (For material on short-term requirement, see the industry in question in IV. "Industry status and trend.")
*3. Consumer demand and preference
(For material on specific forest resources, see also IIIA,B)

B. Market, marketing, trade, export, import

1. General
2. Futures, hedging
3. Stumpage, roundwood
4. Lumber, plywood, composition board
5. Pulp, paper, paperboard

a. Product
*b. Raw material

6. Other wood products
*7. Christmas trees, greens
*8. Other type of output (See also IIC3)

C. Price, value

*1. General
2. Stumpage, roundwood
*3. Other type of output
*4. Price reporting

*D. Transportation (Includes transportation in manufacturing.) (For transportation in forest management, see IIIC; in harvesting see IVB4)

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3229. 60 IIIA5E DURAND J.F. "The Design and Development of Forests and Forest Parks (with particular reference to the Irish Republic)." Irish Landscape Journal, Vol. 1, No. 4 (1981), pages 5-12. In: Leisure, Recreation and Tourism Abstracts, Vol. 7, No. 4.

3230. 60 IIIA5E MACEWEN A., MACEWEN M. "National Parks: Conservation or Cosmetics?" Resource Management Series 5. Bartlett Sch. Agric. & Planning, Univ. College, London, U.K. (1982), 314 pages. Cited in Forestry Abstracts, Vol. 43, No. 6.

3231. 60 IIIA5E MCKENRY K. "Value Analysis of Wilderness Areas." In, Leisure and Recreation (1980), pages 209-221. In: Leisure, Recreation and Tourism Abstracts, Vol. 7, No. 4.

3232. 60 IIIA5E MILLER K.R. "Parks and Protected Areas: Considerations for the Future." Ambio, Vol. 11, No. 5 (1982), pages 315-317. Key questions confront those responsible for the stewardship of society's natural heritage which challenge the capacity of established areas to maintain biological resources and the capacity of management institutions to carry out their commitments. The options and opportunities to meet the challenge are considerable.

3233. 60 IIIA5E OLTREMARI A.J., PAREDES V.G., REAL H.P. Forestry Research and Development, Chile. Methodology for Reclassification and Boundaries Delimitation of National Parks and Forest Reserves in Chile. FAO, Rome, Forestry Dept. (1981) In Spanish, 51 pages. Cited in FAO Documentation Current Bibliography 82/5-6.

3234. 60 IIIA5E PADUA M.T.J., QUINTAO A.B. "Parks and Biological Reserves in the Brazilian Amazon." Ambio, Vol. 11, No. 5 (1982), pages 309-314. Although the first Brazilian national park was established in 1937, until the last decade there were no protected areas in the Brazilian Amazon. Since 1974 fourteen new protected areas have been added to the Brazilian parks system, most of them in the previously-neglected Amazon and northeast regions. Total area under management has risen to almost 10 million ha. Further planning is being developed to give continuity to a process which aims to protect significant samples of Amazonian ecosystems.

3235. 60 IIIA5E PARSONS D.J., STOHLGREN T.J., KRAUSHAAR J.M. "Wilderness Permit Accuracy: Differences between Reported and Actual Use." Environmental Management, Vol. 6, No. 4 (1982), pages 329-335. Wilderness permits are valuable tools for recording backcountry use patterns and provide a basis for management decisions. Significant inaccuracies in reporting permit data result from noncompliance, transmission errors, and changes in visitor plans.

3236. 60 IIIA5E ROGGENBUCK J.W., WATSON A.E., STANKEY G.H. "Wilderness Management in the Southern Appalachians." Southern Journal of Applied Forestry, Vol. 6, No. 3 (1982), pages 147-152. Wilderness managers need information about visitor preferences and behavior if they are to protect wilderness experiences and resources. Wilderness users expect few contacts with other groups. Use controls are generally supported, and visitors favor unobtrusive management strategies over direct regulations.

3237. 60 IIIA5E SHAO Q.H., DAI S.F. "Nature Reserves in China." Allgemeine Forstzeitschrift; No. 45 (1981) In German, pages 1206-1209. In: Leisure, Recreation and Tourism Abstracts, Vol. 7, No. 4.

3238. 60 IIIA5E SINGH T.V., KAUR J., SINGH D.P. Studies in Tourism Wildlife Parks Conservation. New Delhi, India; Metropolitan Book Co. Pvt. Ltd. (1982), 300 pages. In: Leisure, Recreation and Tourism Abstracts, Vol. 7, No. 4.

3239. 60 IIIA5E STANKEY G.H. "The Role of Management in Wilderness and Natural-area Preservation." Environmental Conservation, Vol.9, No.2. (1982), pages 149-155.

3240. 60 IIIA5E TISDELL C. "National Parks: Economic Issues." In, Leisure and Recreation in Australia (1980), pages 111-119. In: Leisure, Recreation and Tourism Abstracts, Vol. 7, No. 4.

3241. 60 IIIA5E WASHBURNE R.F. "Wilderness Receational Carrying Capacity: Are Numbers Necessary?" Journal of Forestry, Vol. 80, No. 11 (1982), pages 726-728. Amount of use is only one factor related to wilderness conditions. In most situations, setting standards and monitoring specific conditions would be more effective than calculating use capacities. Such monitoring would seem to meet requirements of the National Forest Management Act pertaining to wilderness management.

3242. 60 IIIA5F FRITSCHEN J.M., STYNES D.J. "Interpretation for Urban Audiences." In, Proceedings, 1980 Workshop of Interpretive Naturalists (1980), pages 190-194.

3243. 60 IIIA5F HENCHMAN M.W. Site Interpretation on Nature Reserves. Documentation Series, European Information Centre for Nature Conservation, Council of Europe, No. 7 (1981), 18 pages. In: Leisure, Recreation and Tourism Abstracts, Vol. 7, No. 4.

3244. 60 IIIA5G ANDERSON L.M., LEVI D.J., DANIEL T.C., DIETERICH J.H. The Esthetic Effects of Prescribed Burning: A Case Study. USDA Forest Service Research Note RM-413 (1982), 5 pages. Scenic values were compared for two 10 acre ponderosa pine plots, both logged, but one with a prescribed burn to remove slash. The burned plot was significantly less attractive immediately following the burn, but significantly more attractive one year later. Recovery on both plots reached an apparent asymptote after 3 years.

3245. 60 IIIA5G BUHYOFF G.J., WELLMAN J.D., DANIEL T.C. "Predicting Scenic Quality for Mountain Pine Beetle and Western Spruce Budworm Damaged Forest Vistas." Forest Science, Vol. 28, No. 4 (1982), pages 827-838.

3246. 60 IIIA5G MIKOLA P. "Development of the Finnish Forest Landscape." Terra, Vol. 94, No. 1. Author's address: The Finnish Forest Research Inst. Unioninkatu 40 A, 00170 Helsinki 17, Finland. (1982) In Finnish with English abstract, pages 56-63.

3247. 60 IIIA5G SAVOLAINEN R., KELLOMAKI S. "Scenic Value of Forest Landscape." Acta Forestalia Fennica, Vol. 170. Author's address: University of Joensuu, Box 111, 80101 Joensuu 10, Finland. (1981) In Finnish with English summary and abstract. Pages 1-80. Scenic value of forest landscapes was studied on the basis of an empirical material representing scenic preferences among forestry students and city dwellers. Stands of moderate density containing individual tall trees and a coniferous undergrowth had the greatest scenic value, independently of the tree species composition. Measurements made in the field by means of interviews, and measurements in the laboratory made on the basis of photographs, gave very similar results. Photographs seem to represent a reliable tool for estimating scenic value of forest landscape.

3248. 60 IIIA5G SCHROEDER H.W. "Managing the Esthetics of Outdoor Recreation Sites: Some Analogies with Problems in Retailing." J. Retailing, Vol. 58, No. 1 (1982), pages 22-33.

3249. 60 IIIA5G VOLOSCUK I. "Management of Forests from the Standpoint of Forest Esthetics." Les (Bratisl) Vol. 36, No. 2 (1980) In Slovak. Pages 64-69. Cited in Bibliography of Agriculture, Vol. 46, No. 5.

3250. 60 IIIA5H PLUMLEY H.J. A Framework for Assessing and Designing Dispersed Recreation Capacities. Ph.D. dissertation, State Univ. of NY at Syracuse. (1981), 177 pages. Available from Univ. Microfilms International.

3251. 60 IIIA5H POULIN G. "Preferential Use of a Woodland Camping Site: an Index and an Application." Cahiers de Geographie de Quebec, Vol. 24, No. 62 (1980) In French with English summary, pages 327-336. In: Leisure, Recreation and Tourism Abstracts, Vol. 7, No. 4.

3252. 60 IIIA5H ZHURIN I.K. "The Organization of Facilities in Recreation Forests." Lesnoe Khozyaistvo, No. 1 (1981) In Russian, pages 68-71. Cited in Forestry Abstracts, Vol. 43, No. 6. Questionnaire surveys provide the best information on visitor behavior and preferences.

3253. 60 IIIA5I LOOMIS J.B. "Effect of Non-price Rationing on Benefit Estimates from Publicly Provided Recreation." Journal of Environmental Management, Vol. 14, No. 3 (1982), pages 283-289. Using a modified travel cost model, losses in recreation benefits associated with lottery rationed hunting permits are estimated.

Implications of these reduced benefit estimates include less than optimal treatment of these species in land use resource allocations and in allocation of wildlife management funds.

3254. 60 IIIA5I PRISTUPA G.K. "Economic Evaluation of the Recreational Function of the Forest." Lesnoe Khozyaistvo, No. 3 (1981) In Russian, pages 9-11. Cited in Forestry Abstracts, Vol. 43, No. 8.

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3257. 60 IIIA6 WOO B.M. "Problem Analysis for Watershed Development Programming in Jamaica." Journal f Korean Forestry Society, No. 56 (1982), pages 82-89. The author participated in research on soil conservation and watershed management in Jamaica.

3258. 60 IIIA8 ANDRESEN J.W., JOHNSON C. "Is Urban Forestry Education Ready for the Future?" Journal of Forestry, Vol. 80, No. 10 (1982), pages 658-659. Between 1975 and 1980 the number of North American university courses identified by "urban forestry" in the course title or catalogue description increased. More attention must be given to recruiting and retaining minority students who could promote social solidarity through inner-city "greening" programs.

3259. 60 IIIA8 BILES L.E. "Urban Forestry, for the Plains and for the Nation." In, Great Plains Agricultural Council. Forestry Comm. Annual Meeting, Lubbock, TX (1981), pages 131-139. Cited in Southfornet Monthly Alert (August 1982) Science Library, Univ. of Georgia, Athens, GA 30602.

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3261. 60 IIIA8 FELIX R. "Coming of Age (Urban Forestry)." Landscape Ind., Vol. 25, No. 4 (1980), pages 60,62,72-73. Cited in Bibliography of Agriculture, Vol. 46, No. 6.

3262. 60 IIIA8 RUBENS J.M. "Urban Forest Management in the United States." Arboricultural Journal, Vol. 6, No. 1 (1982), pages 13-17.

3263. 60 IIIB1 BARGER R.L., FIEDLER C.E. "The Small Timber Resource in the Inland West." In, Harvesting Small Timber: Waste Not, Want Not. Proceedings April 28-30, Syracuse, NY P-81-32. Madison, WI: Forest Products Research Society. (1981), pages 3-17.

3264. 60 IIIB1 CLARK J.D. "1981 Activity on Improved Forest Management in Canada: A Report to the Canadian Institute of Forestry." The Forestry Chronicle, Vol. 58, No. 3 (1982), pages 126-130.

3265. 60 IIIB1 LEDOUX C.B., BRODIE J.D. "Maximizing Financial Yields by Integrating Logging and Silvicultural Techniques." Journal of Forestry, Vol. 80, No. 11 (1982), pages 717-720. Substantial gains in merchantable volume yields and profits from Douglas-fir stands in mountainous terrain can be achieved by considering logging and silvicultural techiques simultaneously. To maximize financial yields, managers must consider not only the length of the rotation, timing of entries, and volume removal per entry but also the proper harvesting equipment, precommercial and commercial thinning treatments, and fertilizer applications. The joint returns from combinations of techniques are greater than the sum of returns from each technique applied independently.

3266. 60 IIIB1 LUKAC A. "Objectivization of the Height of Material Supply in Forestry." In, Section 5 - Economics and Management of Forestry and Woodworking Industries, Proceedings from the International Conference, September 7-9, 1982, Zvolen, CSSR (1982) In Czech with summaries in Russian, English, and German, pages 93-101.

3267. 60 IIIB1 PARTYKA T., TRAMPLER T. "Economics and Organization of Forest Management." Sylwan, Vol. 124, No. 12 (1980) In Polish, pages 17-28. Cited in Bibliography of Agriculture, Vol.46, No. 9.

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3269. 60 IIIB3 EVANS J. Plantation Forestry in the Tropics. Oxford, U.K., Clarendon Press (1982), 472 pages. Cited in Forestry Abstracts, Vol. 43, No. 7.

3270. 60 IIIB3 HOLOPAINEN V., MIETOLA T. Field Afforestation in Finland, 1970-79. University of Helsinki, Dept. of Social Economics of Forestry, Research Reports 1981 No. 3. Author's address: Dept. of Social Economics of Forestry, Unioninkatu 40 B, 00170 Helsinki 17, Finland. (1981) In Finnish with English summary. Pages 1-63. Before the late 1960's, Finland's land-use policy encouraged land owners to expand agricultural production. The policy had to be changed drastically in 1969 because of problems in marketing considerable agricultural surpluses. Various measures, including reduction of arable land area, were taken to restore the balance between production and consumption of domestic foodstuffs. Afforestation was considered at this time as one alternative for the utilization of surplus agricultural land. This investigation describes the field afforestation policy in the context of reducing agricultural production.

3271. 60 IIIB3 KEITA J.D. "Plantations in the Sahel." Unasylva, Vol. 33, No. 134 (1981), pages 25-29. In the end, the solution lies in reduction of stands to more human dimensions. Forestry should be brought to the level of the village and of local agriculture.

3272. 60 IIIB3 LARIN V.B., PAUTOV IU.A. "Forest Regeneration in Komi ASSR." Lesn Khoz, No. 4 (1980) In Russian. Pages 38-39. Cited in Bibliography of Agriculture, Vol.46, No. 7.

3273. 60 IIIB3 LEDIG F.T., PORTERFIELD R.L. "Tree Improvement in Western Conifers: Economic Aspects." Journal of Forestry, Vol. 80, No. 10 (1982), pages 653-657. The National Forest Systems's tree improvement program for ponderosa pine in the Pacific Southwest and the "progressive tree improvement program" for Douglas-fir in the Pacific Northwest appear capable of returning at least an 8 percent real rate of return on investment if short rotations are used or if tree improvement is accompanied by thinnings.

3274. 60 IIIB3 MOAK J.E. "Forest Practices Cost Trends in the South." Southern Journal of Applied Forestry, Vol. 6, No. 3 (1982), pages 130-132. Between 1952-1979, trends of nine forest practices cost increases have ranged from 6.55 percent annually for planting by hand to 11.19 percent annually for mechanical site preparation in the South. These figures represent an increase over the wholesale price index of 3.21 percent annually for planting by hand and 7.70 percent for mechanical site preparation.

3275. 60 IIIB3 POMAZNIUK V.A. "Forest Regeneration in Concentrated Felling Areas of the Central Urals." Lesn Khoz, No. 7 (1980) In Russian. Pages 26-28. Cited in Bibliography of Agriculture, Vol.46, No. 7.

3276. 60 IIIB3 SELBY A.J. "Hierarchical Levels in Spatial Analysis." Fennia, Vol 160, No. 2. Author's address: The Finnish Forest Research Inst., Dept. of Forest Economics, Box 37, 00381 Helsinki 38 Finland. (1981), pages 295-301. Spatial variations in the intensity of field afforestation in Finland were examined at four spatial levels, or scales. On the basis of theories and concepts concerning social and economic degrees of development, supplemented by locational and behavioral considerations, an a priori model was constructed for empirical estimation. The a priori model established the maintained hypotheses for the investigation at each level. The model contained agricultural structural, farm ownership, socio-economic and institutional elements.

3277. 60 IIIB3 VALSTA L. "Profitability Comparison of Growing Densities in Spruce Plantations." Folia Forestalia No. 504 (1982) In Finnish with English summary. Pages 1-33. Economic profitability of growing densities in Norway spruce plantations in southern Finland is evaluated by using partial investment criteria as real net present value and the real internal rate of return. Yield data, covering whole rotations, are based on permanent plots and yield predictions. Unit prices and costs are held constant over time. Optimal density varied from 85 to 60 percent of the maximum and seems to be lowered with increasing site fertility, increasing rate of interest, increasing unit price ratio timber: pulpwood and decreasing cost level.

3278. 60 IIIB4 GUNDERMANN E., PLOCHMANN R. "Cost-benefit Analysis of a Melioration Project in a Mountain Forest." Centralblatt fur das Gesamte Forstwesen, Vol. 99, No. 1 (1982) In German with English summary. Pages 1-23. Present value of the benefit exceeds the additonal costs of the restoration and justifies the restoration.

3279. 60 IIIB4 LEE H.K. "Survey on Work Efficiency of Thinning." The Research Reports of the Forest Research Institute, No. 28 (1981) In Korean with English summary, pages 111-126. Work efficiency of thinnings done by manual and chainsaw operations were tested.

3280. 60 IIID1 KULA E. "Occurrence and Causes of Forest Fires in Slovak Socialist Republic During the Period 1974-1978." Les (Bratisl), Vol. 37, No. 3 (1981) In Slovenian, pages 113-116. Cited in Bibliography of Agriculture, Vol. 46, No. 11-12.

3281. 60 IIID1 "Prevention of Catastrophic Forest Fires." Algemeine Forstzeitschrift, Munich, No. 36 (1982) In German, pages 1068-1104. Special issue discussing international development of fire control, aerial control, fire fighting using helicopters and foam extinguishers.

3282. 60 IIIE CALLAHAN J.C., FISCHER B.C. "Economic and Silvicultural Potentials of 23 Harvested Indiana Woodlands." Sta. Bull 362 West Lafayette, In: Purdue Univ., Dept. of Forestry and Natural Resources, Agric. Exp. Stn. (1982), 23 pages.

3283. 60 IIIE DENNIS N., TEEGUARDEN D.E. "Identifying Suitable National Forest Timberlands: A Case Study." Journal of Forestry, Vol. 80, No. 11 (1982), pages 712-716. About 15 percent of a 624,200 acre land unit on the Shasta-Trinity National Forest in northern California is both capable of and suitable for timber production under screening criteria required by the National Forest Management Act of 1976. Economic submarginality is not the principal cause of unsuitability: only about 3 percent of the unit's capable timberlands are economically inefficient. Instead, capability screens and the timber production goals are the primary determinants of suitability. Productivity and regenerability standards alone disqualify two-fifths of the area; and another two-fifths would not be needed to meet current programmed harvest.

3284. 60 IIIE DOUDA V. "Effective, Economical and High-Quality Management of Forestry." Lesnictvi, Vol. 8, No. 28 (1982) In Czech. Pages 619-624.

3285. 60 IIIE FORSSELL O. The Finnish Input-Output Model in Relation to the Forest Sector. University of Umea. Swedish College of Forestry, Research Report 1982:1. Author's address: University of Oulu, Dept. of Economics, Kiviharjuntie, 90220 Oulu 22, Finland. (1982), pages 71-86

3286. 60 IIIE HOLLAENDER C. "Forest Area - Planning - Conception of Area - Related Forest Planning." Schriftenreihe des Instituts fuer Landschaftspflege der Universitaet Freiburg, Vol. 1 (1981) In German, 214 pages. This dissertation discusses the problems of forestry in regional planning and makes proposals to better integrate forestry planning.

3287. 60 IIIE KOTEN D.E. "Managerial Skills as Viewed by Forest Supervisors." Journal of Forestry, Vol. 81, No. 1 (1983), pages 19-22. Three skills most important are: anticipating and analyzing critical issues, working with other disciplines, and developing and setting goals and priorities. The first two skills were judged to be best enhanced by on-the-job training, while the third was viewed as a skill readily enhanced by formal development programs.

3288. 60 IIIE NEKRASOV M.D. "Development of Cost-Accounting Production in Forestry Enterprises of the European North (USSR)." Lesn Khoz, No. 4 (1980) In Russian. Pages 27-28. Cited in Bibliography of Agriculture, Vol.46, No. 7.

3289. 60 IIIE REUNALA A. Decision-Making on Field Reservation Farms. Univ. of helsinki, Dept. of Land Use Economics, Research Reports 1981 No. 5. Author's address: University of Helsinki, Dept. of Land Use Economics, Viikki, 00710 Helsinki 71, Finland. (1981) In Finnish with English summary. Pages 1-110. The decision to reserve fields and the later decisions either to terminate the contract or to afforest the fields was never solely the result of problems of farm structure or manpower, but values and attitudes had an important influence in every decision.

3290. 60 IIIE VON GADOW K. "Formal Management Methods in Forestry: The Situation Analysis." South African Forestry Journal, No. 121 (1982), pages 47-51.

3291. 60 IIIE WILLIAMS M.R.W. Decision-making in Forest Management. Research Studies Press, John Wiley and Sons (1981), 138 pages.

3292. 60 IVA1B BUTTS P.M., WELLS W.L. Wood-using Industries in Georgia. Georgia Forestry Commission (1981), 97 pages. Cited in Southfornet Monthly Alert (July 1982), Science Library, University of Georgia, Athens, GA 30602.

3293. 60 IVA1B NEVEL R.L. JR., SOCHIA E.L., WAHL T.H. New York Timber Industries - A Periodic Assessment of Timber Output. USDA Forest Service Resource Bulletin NE-73 (1982). Statistics on industrial timber production and receipts, and production and disposition of the manufacturing residues. Comparisons are made with the most recent survey, and trends in industrial wood output are noted.

3294. 60 IVA1B RUDERMAN F.K. Production, Prices, Employment, and Trade in Northwest Forest Industries, Fourth Quarter 1981. USDA Forest Service, Pacific Northwest Forest and Range Experiment Station (1982), 49 pages. Current information on timber situation in Alaska, Washington, Oregon, California, Montana, Idaho, and British Columbia, including data on lumber harvest; employment in forest products industries; international trade in logs, pulpwood, chips, lumber and plywood; log prices in the Pacific Northwest; volume and average prices of stumpage sold by public agencies; and other related items.

3295. 60 IVA1B "The Battered Fortunes of the Forest Products Industry." Business Week, No. 2756 (1982), pages 70-73, 76. The 125 billion dollar forest products industry in the United States has reached a critical point. Operating earnings are fast disappearing for even the most efficient producers, and recession and high interest rates have undercut companies.

3296. 60 IVA1C HOUMARD M.A. "Forestry and the Forest Products Industry: Today and Tomorrow." Schweizerische Zeitschrift fur Forstwesen, Vol. 132, No. 11 (1981) In German with French summary, pages 909-931. Cited in Forestry Abstracts, Vol.43, No. 5. A general review, designed to aid in development of general policies for Switzerland, covering: economics, future timber supply and demand, correcting the imbalance of domestic supply and demand, and suggestions for a forest products policy.

3297. 60 IVA1C LUPTAK S. "New Possibilities of Intensification of Woodworking Industries and Forestry under Present Conditions." In, Section 5 - Economics and Management of Forestry and Woodworking Industries, Proceedings from the International Conference, September 7-9, 1982, Zvolen, CSSR (1982) In Czech with summaries in Russian, English, and German, pages 103-109.

3298. 60 IVA1C TUNAK S. "Utilization of Raw Timber in the Complex of Forestry and Woodworking Industries of the Czechoslovak Socialist Republic and Comparison of Standards within European States of CMEA." In, Section 5 - Economics and Management of Forestry and Woodworking Industries, Proceedings from the International Conference, September 7-9, 1982, Zvolen, CSSR (1982) In Czech with summaries in Russian, English, and German, pages 225-233.

3299. 60 IVA1C "Some Features of the Development in the Finnish Forest Industry during 1981." Paper and Timber 1982, No. 4 (1982), pages 283-313.

3300. 60 IVA1E BORGO G. Forestry Development, Paraguay. 1980 Census (partial) of Wood Industries in Paraguay. FAO, Rome. Working Document 26 (1981) In Spanish, 112 pages. Cited in FAO Documentation Current Bibliography 82/5-6.

3301. 60 IVA1E FRISK T. Supplying of Forestry Industries in the Peruvian Amazonia and Possible Measures to Improve the Situation. FAO, Rome (1982) In Spanish, pages 12-17. Cited in FAO Documentation Current Bibliography 82/5-6.

3302. 60 IVA1E GREGERSEN H.M., MCGAUGHEY S. "Forest Sector Investment Needs in Latin America." Journal of Forestry, Vol. 81, No. 1 (1983), pages 35-36. Projections of needed annual investments in forest industry and industrial forestry are 6.6 billion dollars for the years 1981-1985, rising to 9.2 billion dollars during 1996-2000. Potential investment in social and protection forestry is estimated at 2.6 to 4.2 billion dolalrs for 1981-2000. Prerequisite to such rates of investment are the development of sufficient institutional capacity to plan major projects, and the development of mechanisms to encourage investment.

3303. 60 IVA1E "Forest Industry of Brazil and Other Countries of Latin America (Forestry Production, Lumbering, Trade)." Rev Madeira, Vol. 29, No. 347 (1980) In Portuguese, pages 12-17, 20-23. Cited in Bibliography of Agriculture, Vol.46, No. 8.

3304. 60 IVA2 1983 Southern Pulp and Paper Directory. Vol. 45, No. 10. (1982), 258 pages.

3305. 60 IVA4 PETROV A.D., CHERNE B.A. "Methods and Principles for Economic Stimulation of the Integrated Utilization of Forest Resources." Lesnoi Zhurnal, No. 1 (1981) In Russian, pages 106-110. Cited in Forestry Abstracts, Vol.43, No. 5.

3306. 60 IVC1A GREBER B.J., WHITE D.E. "Technical Change and Productivity Growth in the Lumber and Wood Products Industry." Forest Science, Vol. 28, No. 1 (1982), pages 135-147. Technical change in the industry was found to exhibit a labor-saving bias that resulted in a doubling of labor's productive efficiency while capital's productive efficiency declined due to underutilization of capacity. Technical change accounted for most of the growth in productivity in the industry. Elasticity of factor substitution was approximately 0.14 and labor received the larger share of income throughout the 23 year period.

3307. 60 IVC1D SENDAK P.E., HUYLER N.K., GARRETT L.D. Lumber Value Loss Associated with Tapping Sugar Maples for Sap Production. USDA Forest Service Research Note NE-306 (1982), 4 pages. Tapping sugar maples for sap production yields an annual income, but there is a loss in timber quality if the tree is cut for factory lumber products. An average loss per tree of $2.87 is based on a sample of 90 trees in Vermont that were formerly tapped.

3308. 60 IVC2A BAYLISS M. "Paper in India." Pulp and Paper International, Vol. 24, No. 7 (1982), pages 39-45. Raw material and cash shortages plus government restrictions have slowed growth in India.

3309. 60 IVC2A BAYLISS M., SUTTON P. "Worldwide Pulp/Paper Industry: Less Output, Lower Profits in 1981." Pulp and Paper, Vol. 56, No. 8 (1982), pages 49-58.

3310. 60 IVC2A COYLE S., KALISH J. "PPI Top 100." Pulp and Paper International, Vol. 24, No, 10 (1982), pages 77-86. Top 100 pulp and paper companies in the world plus 50 runners-up.

3311. 60 IVC2A HART H. "Hart Expects Decline to Continue in 1982." Pulp and Paper Canada, Vol. 83, No. C (1982), pages 24, 26, 28.

3312. 60 IVC2A SLINN R.J. "Emerging Problems and Opportunities for the Pulp and Paper Industry." Tappi Journal, Vol. 65, No. 10 (1982), pages 51-52.

3313. 60 IVC2A Pulp and Paper International - Annual Review. Vol. 24, No. 8. (1982), 144 pages. Covers world trends and trade and the situation in Europe, North America, Asia/Australasia, Latin America, and Africa.

3314. 60 IVC2C NEVEL R.L. JR., WIDMANN R.H. Pulpwood Production and Receipts in the Northeast. 1980: a Statistical Report. USDA Forest Service Resource Bulletin NE-72. (1982). From 1979 to 1980, total pulpwood production rose to nearly eight and a half million cords and roundwood production to over 6 million cords; chipped residue production fell below two and a half million cords. Mill receipts were 9.1 million cords, 6.4 million in roundwood and 2.7 million in chips.

3315. 60 IVC3A CARLL C.G., YOUNGQUIST J.A., DICKERHOOF H.E. "U.S. Wood-Based Panel Industry: Energy, Environmental Protection, and Occupational Safety and Health." Forest Products Journal, Vol. 32, No. 9 (1982), pages 14-22.

3316. 60 IVC5 PARAMENTIC O. "Present Moment of the Furniture Industry (Yugoslavia)." Sumarstvo Forestry, Vol. 33, No. 6 (1980) In Serbo-Croatian (Cyrillic), pages 25-33. Cited in Bibliography of Agriculture, Vol.46, No. 9.

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APPENDIX

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